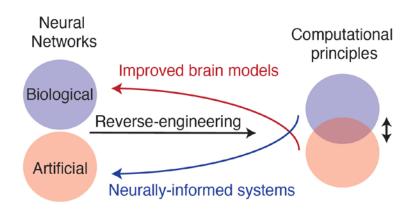


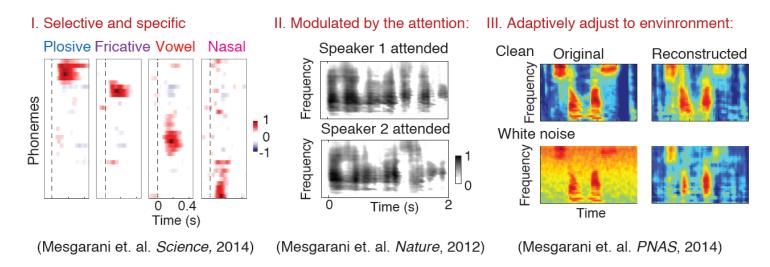
- Organizations:
  - Columbia University in the City of New York
  - University of Maryland College Park
- Lead Investigators:
  - Prof. Nima Mesgarani & Shihab Shamma



 Integrating computational principles of biological and artificial neural networks:



Combining invasive human studies and computational modeling





- Expertise and qualifications:
  - Speech and audio signal processing
  - Computational modeling
  - Animal single neuron electrophysiology
  - Human invasive and noninvasive recording
- Successful record of biologically-informed models in speech processing applications (IARPA BEST, DARPA RATS)



- We seek to join groups with the following expertise:
  - Access to computational resources and large amount of training data
  - Expertise in systems integration and algorithm development



## **Contact Information**

Nima Mesgarani

Assistant Professor, Columbia University, <a href="mailto:nima@ee.columbia.edu">nima@ee.columbia.edu</a>
<a href="https://www.ee.columbia.edu/~nima">www.ee.columbia.edu/~nima</a>

Shihab Shamma
 Professor, University of Maryland College Park,
 sas@umd.edu